



Department of Commerce

Safety & Buildings Division

201 West Washington Avenue

P.O. Box 2658

Madison, WI 53701

Approval #

200003-U (Replaces 940073-U)

## Wisconsin Material Approval

Material

Cretex Midwest FuelVault

Manufacturer

The Cretex Companies, Inc.  
311 Lowell Avenue  
Elk River, MN 55330

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### SCOPE OF EVALUATION

The Cretex Midwest FuelVault manufactured by the Cretex Companies, Inc. was evaluated for use as a secondary containment aboveground tank for flammable liquids in accordance with **ss. Comm 10.345 (1) and 10.415 (7) (b)**; for fire exposure in accordance with **s. Comm 10.415 (4) (b)**; for projectile resistance in accordance with **s. Comm 10.415 (7) (b)**; and for vehicle collision protection in accordance with **s. Comm 10.415 (8)** of the Wisconsin Administrative Flammable and Combustible Liquids Code.

### DESCRIPTION AND USE

The Cretex Midwest FuelVault consists of a UL 142 tank placed inside of a 6-inch thick reinforced concrete vault with a 6-inch thick reinforced concrete removable lid. The liquid capacities range from 500 to 6,000 gallons.

## TESTS AND RESULTS

The primary tank has been tested and listed to the UL 142 standard. The FuelVault system is listed by Southwest Research Institute as complying with the following standards: SWRI93-01, UFC Standard A-II-F-1, and UL Subject 2085. The first two standards require hose stream resistance, projectile resistance and collision impact resistance in addition to the fire exposure test. The FuelVault received listing for a 2-hour fire exposure.

## LIMITATIONS OF APPROVAL

As installed, the FuelVault does not require additional vehicle collision protection.

The tanks labeled as conforming to SWRI93-01 and UFC79-7 are considered to have adequate projectile resistance.

The vaulted tank is approved as providing equivalent protection to the fencing requirement of **s. Comm 10.415 (5) (a)** for the tank itself. In order to provide equivalent protection for the pump and appurtenances, the site shall be provided with dusk-to-dawn lighting and any stairs or ladders attached to the vault shall be secured against unauthorized use.

Setbacks may be reduced between the tank and a building or property line in accordance with **s. Comm 10.415 (4) (b) 2**, unless traffic patterns or special hazards warrant larger setbacks.

The double wall tanks are approved for compliance with the secondary containment requirements of **ss. Comm 10.345 (1)** and **10.415 (7) (b)** and may be used without a dike, except in the case of public-access waste oil collection. Tanks for public-access waste oil collection shall be provided with a dike in accordance with **s. Comm 10.33**.

Tanks up to 10,000 gallons may be used for vehicle fueling in accordance with **s. Comm 10.415**.

The interstitial space shall be monitored for leaks. The monitor must be capable of detecting a leak from anywhere in the inner tank.

Compartmentalized tanks shall be constructed with a double bulkhead in accordance with UL Standard 142. This interstitial space between compartments shall be monitored for leaks.

A spill container shall be provided at the fill opening in accordance with **s. Comm 10.415 (12) (a)**.

No attachments shall be made to the tank which violate or void the UL listing.

The tank shall be installed to allow full visual inspection of the secondary containment system.

The installer shall be certified by the department in accordance with **ch. Comm 5**.

This approval will be valid through December 31, 2005, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The Department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement unless specified in this document.

Reviewed by: \_\_\_\_\_

Approval Date: \_\_\_\_\_ By: \_\_\_\_\_

Duane Hubeler, P.E.  
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